

Title (en)

A method and apparatus for compressing video information using motion dependent prediction

Title (de)

Verfahren und Vorrichtung zur Komprimierung von Videoinformationen mit bewegungsabhängiger Prädiktion

Title (fr)

Méthode et dispositif pour comprimer de l'information vidéo employant une prédiction dépendant du mouvement

Publication

**EP 0762776 A3 19990908 (EN)**

Application

**EP 96113147 A 19960816**

Priority

US 51943895 A 19950825

Abstract (en)

[origin: EP0762776A2] A disclosed method and apparatus reduces the number of computations and simplifies the hardware required to provide compressed video output data. Video input data is converted (57) into input pixel blocks. Best predicted blocks and associated motion vectors are determined (91,93,97) for input pixel blocks located in a predetermined area of the image. In addition, candidate predicted blocks are determined for other input pixel blocks. This is done (65,75,80,85,90,95) by extrapolating motion vectors from the previously determined associated motion vectors and identifying candidate predicted blocks using the extrapolated motion vectors. The candidate predicted blocks are mutually compared (65), and one of the blocks is selected consistent with compression data rate requirements. The selected block is compressed (70) to provide an output block which is formatted (100) into an output data packet. A block match search is used (85,95) to identify candidate Field predicted blocks and associated motion vectors from which other motion vectors are extrapolated and used to identify additional predicted blocks. <IMAGE>

IPC 1-7

**H04N 7/36**

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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